

(e) has a storage modulus at 25°C, $G'(25^{\circ}\text{C})$, and a storage modulus at 100°C, $G'(100^{\circ}\text{C})$, wherein the ratio of $G'(25^{\circ}\text{C})$ to $G'(100^{\circ}\text{C})$ is in the range of about 1:1 to about 9:1; or

(f) has at least one molecular fraction which elutes between 40°C and 130°C when fractionated using TREF, characterized in that the fraction has a block index of at least 0.5 and up to about 1 and a molecular weight distribution, M_w/M_n , greater than about 1.3; or

(g) has an average block index greater than zero and up to about 1.0 and a molecular weight distribution, M_w/M_n , greater than about 1.3 or

(h) has a M_w/M_n from about 1.7 to about 3.5 and has at least one melting point, T_m , in degrees Celsius, and a density, d , in grams/cubic centimeter, wherein the numerical values of T_m and d correspond to the relationship:

$$T_m > -6553.3 + 13735(d) - 7051.7(d)^2.$$

Remarks

This Paper is submitted in response to the Office Communication dated May 26, 2010. This Paper is filed within the shortened statutory response period. The Commissioner is hereby authorized to charge any additional fees to Deposit Account No. 04-1512.

Claims 1 and 3-20 are pending in this application. Claim 2 was previously canceled and Claim 6 was withdrawn. Claims 3-5 are currently withdrawn. Claims 1, 19 and 20 are currently amended.

The Office Communication is in response to the Reply filed March 12, 2010 and indicates that the reply was not fully responsive to the original Restriction requiring the Applicants to make two species elections: (1) a species election for the first polymer and (2) a species election for the second polymer.

The Restriction requires the election of one of the following species for the first polymer: (a) polypropylene polymers, (b) polyethylene polymers, or (c) a blend of high-density polyethylene copolymers with a viscosity average molecular weight of 300,000 and 4,000,000

and a content of an alpha-olefin unit with 3 or more carbon atoms of 0.01 to 1% by mole. The present claims recite that the first polymer comprises a high density polyethylene rendering moot this Restriction. Therefore, Applicants have made a species election of high density polyethylene without traverse.

The Restriction requires the election of one of the following species for the second polymer: (i) low density and linear low density polyethylene; (ii) an ethylene copolymer with a composition distribution breadth index greater than 50%, or (iii) vulcanizable rubber. The present claims recite that the second polymer comprises polypropylene, thus rendering moot this Restriction. Therefore, Applicants have made a species election of polypropylene without traverse.

Claims 3-5 have therefore been withdrawn. Applicants reserve the right to rejoin the withdrawn claims upon allowance of a generic claim.

CONCLUSION

Applicants respectfully assert that species elections have now been made for the first and second polymers and therefore the current reply is fully responsive and the application is in condition for examination.

Respectfully submitted,

Dated: June 28, 2010

THE DOW CHEMICAL COMPANY

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